

```

EEEEEEEEEEEEEEEEEE DDDDDDDDDDDDDDD TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEEE DDDDDDDDDDDDDDD TTTTTTTTTTTTTTTT
EEEEEEEEEEEEEEEEEE DDDDDDDDDDDDDDD TTTTTTTTTTTTTTTT
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```

EXE

Mod

EDT

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EDSYN  
LBA

110

---

.....

00

```

LL               IIIIII               SSSSSSSS
LL               IIIIII               SSSSSSSS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SSSSSS
LL               II                   SSSSSS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LL               II                   SS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS
LLLLLLLLLLLLLL  IIIIII               SSSSSSSS

```



```
0001 0 %TITLE 'EDT$WRIEDTMSG - write VMSMSG.MSG'
0002 0 MODULE EDT$WRIEDTMSG (
0003 0 IDENT = 'V04-000',
0004 0 MAIN = EDT$WRIEDTMSG
0005 0 ) =
0006 1 BEGIN
0007 1
0008 1 *****
0009 1 *
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0027 1 *
0028 1 *
0029 1 *****
0030 1
0031 1
0032 1 ++
0033 1 FACILITY: EDT -- The DEC Standard Editor
0034 1
0035 1 ABSTRACT:
0036 1
0037 1 This module, WRIEDTMSG.FOR, is a FORTRAN program that writes
0038 1 the file VMSMSG.MSG, which is read by the message compiler
0039 1 to produce EDT's run-time messages.
0040 1
0041 1 ENVIRONMENT: Runs at any access mode - AST reentrant
0042 1
0043 1 AUTHOR: John Sauter, CREATION DATE: 23-Jul-1981
0044 1
0045 1 MODIFIED BY:
0046 1
0047 1 1-001 - Original, from BASMSG.FOR, created November 3, 1978, last
0048 1 revised September 24, 1979 (version 1-015). JBS 28-Jul-1981
0049 1 1-002 - Don't omit the first message. JBS 03-Aug-1981
0050 1 1-003 - Change output file name to VMSMSG.MSG. JBS 03-Aug-1981
0051 1 1-004 - Fix output file's module name. JBS 06-Aug-1981
0052 1 1-005 - Recoded in BLISS since VMS doesn't like its components to be
0053 1 dependent upon Fortran. JBS 22-Oct-1981
0054 1 1-006 - Change output file name to VMSMSG.TMP. BLS 6-May-1983
0055 1 1-007 - Correct the module header and trailer. JBS 09-May-1983
0056 1 --
0057 1
```

```
.. 59      0058 1 %SBTTL 'Declarations'
.. 60      0059 1
.. 61      0060 1 SWITCHES:
.. 62      0061 1
.. 63      0062 1
.. 64      0063 1 SWITCHES ADDRESSING_MODE (EXTERNAL = GENERAL, NONEXTERNAL = WORD_RELATIVE);
.. 65      0064 1
.. 66      0065 1
.. 67      0066 1 LINKAGES:
.. 68      0067 1
.. 69      0068 1 NONE
.. 70      0069 1
.. 71      0070 1 TABLE OF CONTENTS:
.. 72      0071 1
.. 73      0072 1
.. 74      0073 1 FORWARD ROUTINE
.. 75      0074 1     EDT$WRIEDTMSG,
.. 76      0075 1     WRITE_FILE,
.. 77      0076 1     PRINT,
.. 78      0077 1     HEX_TEXT,
.. 79      0078 1     PRINTABLE_TEXT;
.. 80      0079 1
.. 81      0080 1
.. 82      0081 1 INCLUDE FILES:
.. 83      0082 1
.. 84      0083 1
.. 85      0084 1 REQUIRE 'EDT$SRC:PSECTS.REQ';
.. 86      0189 1
.. 87      0190 1 REQUIRE 'EDT$SRC:SYSSYM.REQ';
.. 88      0220 1
.. 89      0221 1
.. 90      0222 1 MACROS:
.. 91      0223 1
.. 92      0224 1 NONE
.. 93      0225 1
.. 94      0226 1 EQUATED SYMBOLS:
.. 95      0227 1
.. 96      0228 1
.. 97      0229 1 LITERAL
.. 98      0230 1     EDT$K_FAC_NO = 133;
.. 99      0231 1
100      0232 1
101      0233 1 FIELDS:
102      0234 1
103      0235 1 NONE
104      0236 1
105      0237 1 STRUCTURES:
106      0238 1
107      0239 1 NONE
108      0240 1
109      0241 1 PSECTS:
110      0242 1
111      0243 1 DECLARE_PSECTS (EDT);
112      0244 1
113      0245 1 OWN STORAGE:
114      0246 1
115      0247 1 NONE
```

! Write VMSMSG.TMP  
! Actually write the text  
! Print a line of text  
! Convert binary to hexadecimal  
! Convert binary to ASCII, printable

! Define PSECT declaration macros  
! Define system symbols

! Facility number, for signaling.

! Declare PSECTS for EDT\$ facility



EDT\$WRIEDTMSG  
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG  
Declarations

C 3  
16-Sep-1984 02:18:31  
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]WRIEDTMSG.B32;1

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(2)

:	116	0248	1	:
:	117	0249	1	:
:	118	0250	1	:
:	119	0251	1	:
:	120	0252	1	:
:	121	0253	1	:
:	122	0254	1	:
:	123	0255	1	:
:	124	0256	1	:
:	125	0257	1	:
:	126	0258	1	:
:	127	0259	1	:

EXTERNAL REFERENCES:

EXTERNAL ROUTINE

STR\$COPY\_DX,  
STR\$CONCAT,  
LIB\$GET\_INPUT,  
STR\$COPY\_R,  
STR\$FREE\_DX,  
EDT\$MSGTXT;

! Copy a string, by descriptor  
! Concatenate strings  
! Get a line from SYS\$INPUT  
! Copy a string, by reference  
! Free a dynamic string  
! Return the text of a message

EDT\$  
V04-

```
129 0260 1 %SBTTL 'Package of macros for string processing'
130 0261 1 !+
131 0262 1 ! Macro to initialize a dynamic descriptor.
132 0263 1 !-
133 0264 1
134 0265 1 MACRO
135 M 0266 1 INIT_DESCRIPTOR (DESCR) =
136 M 0267 1 DESCR [DSC$W_LENGTH] = 0;
137 M 0268 1 DESCR [DSC$B_DTYPE] = DSC$K_DTYPE_T;
138 M 0269 1 DESCR [DSC$B_CLASS] = DSC$K_CLASS_D;
139 M 0270 1 DESCR [DSC$A_POINTER] = 0;
140 0271 1 %,
141 0272 1 !<BLF/MACRO>
142 0273 1 !+
143 0274 1 ! Macro to discard a dynamic descriptor.
144 0275 1 !-
145 M 0276 1 DISCARD_DESCRIPTOR (DESCR) =
146 M 0277 1 BEGIN
147 M 0278 1 LOCAL
148 M 0279 1 FREE_STATUS;
149 M 0280 1
150 M 0281 1 FREE_STATUS = STR$FREE1_DX (DESCR);
151 M 0282 1
152 M 0283 1 IF ( NOT .FREE_STATUS) THEN SIGNAL_STOP (.FREE_STATUS);
153 M 0284 1
154 M 0285 1
155 M 0286 1 END;
156 0287 1 %,
157 0288 1 !+
158 0289 1 ! Macro to build a text line using FAO. This is a convenience macro.
159 0290 1 !-
160 M 0291 1 BUILD_TEXT_LINE (DESCR, CTL_STRING, FAO_ARGS) =
161 M 0292 1 BEGIN
162 M 0293 1 LOCAL
163 M 0294 1 FAO_STATUS,
164 M 0295 1 COPY_STATUS;
165 M 0296 1
166 M 0297 1 CTL_STR_DSC [DSC$W_LENGTH] = %CHARCOUNT (CTL_STRING);
167 M 0298 1 CTL_STR_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
168 M 0299 1 CTL_STR_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
169 M 0300 1 CTL_STR_DSC [DSC$A_POINTER] = CH$PTR (UPLIT (CTL_STRING));
170 M 0301 1 FAO_STATUS = $FAO ?
171 M 0302 1 CTL_STR_DSC,
172 M 0303 1 OUT_LENGTH,
173 M 0304 1 TEMP_STR_DSC,
174 M 0305 1 %REMOVE (FAO_ARGS));
175 M 0306 1
176 M 0307 1 IF ( NOT .FAO_STATUS) THEN SIGNAL_STOP (.FAO_STATUS);
177 M 0308 1
178 M 0309 1 COPY_STATUS = STR$COPY_R (DESCR, OUT_LENGTH, .TEMP_STR_DSC [DSC$A_POINTER]);
179 M 0310 1 .COPY_STATUS
180 M 0311 1 END
181 M 0312 1 %,
182 0313 1 !+
183 0314 1 ! Macro to format and print a line. Errors are returned to the caller.
184 0315 1 ! This is a convenience macro.
185 0316 1 !
```



```
: 186      0317 1  !-
: 187      M 0318 1  PRINT_LINE (TEXT, VARS) =
: 188      M 0319 1  BEGIN
: 189      M 0320 1
: 190      M 0321 1  LOCAL
: 191      M 0322 1  BUILD_STATUS,
: 192      M 0323 1  PRINT_STATUS;
: 193      M 0324 1
: 194      M 0325 1  BUILD_STATUS = BUILD_TEXT_LINE (LINE_DESC, %STRING (%REMOVE (TEXT)), VARS);
: 195      M 0326 1
: 196      M 0327 1  IF ( NOT .BUILD_STATUS) THEN RETURN (.BUILD_STATUS);
: 197      M 0328 1
: 198      M 0329 1  PRINT_STATUS = PRINT (.OUTPUT_RAB, LINE_DESC);
: 199      M 0330 1
: 200      M 0331 1  IF ( NOT .PRINT_STATUS) THEN RETURN (.PRINT_STATUS);
: 201      M 0332 1
: 202      M 0333 1  END
: 203      0334 1  %;
: 204      0335 1
```

```
206 0336 1 %SBTTL 'EDT$WRIEDTMSG - Write VMSMSG.TMP'
207 0337 1 ROUTINE EDT$WRIEDTMSG ! Write VMSMSG.TMP
208 0338 1 =
209 0339 1
210 0340 1 ++
211 0341 1 FUNCTIONAL DESCRIPTION:
212 0342 1
213 0343 1 This routine writes the file VMSMSG.TMP.
214 0344 1
215 0345 1 CALLING SEQUENCE:
216 0346 1
217 0347 1 ret_status.wlc.v = EDT$WRIEDTMSG ()
218 0348 1
219 0349 1 FORMAL PARAMETERS:
220 0350 1
221 0351 1 NONE
222 0352 1
223 0353 1 IMPLICIT INPUTS:
224 0354 1
225 0355 1 NONE
226 0356 1
227 0357 1 IMPLICIT OUTPUTS:
228 0358 1
229 0359 1 NONE
230 0360 1
231 0361 1 COMPLETION STATUS:
232 0362 1
233 0363 1 $$$_NORMAL Normal successful completion
234 0364 1 Any error from LIB$GET_INPUT or STR$FREE1_DX
235 0365 1
236 0366 1 SIDE EFFECTS:
237 0367 1
238 0368 1 Writes a file.
239 0369 1 Any errors from RMSS$CREATE, RMSS$OPEN, RMSS$CONNECT or RMSS$CLOSE
240 0370 1 are signalled.
241 0371 1
242 0372 1 --
243 0373 1
244 0374 2 BEGIN
245 0375 2
246 0376 2 LOCAL
247 0377 2 OUTPUT_BUFFER : BLOCK [132, BYTE], ! output buffer, for RMS
248 0378 2 OUTPUT_FAB : $FAB_DECL, ! RMS FAB for the output file
249 0379 2 OUTPUT_NAM : $NAM_DECL, ! RMS NAM for the output file
250 0380 2 OUTPUT_RAB : $RAB_DECL, ! RMS RAB for the output file
251 0381 2 OUTPUT_FILE_NAME_DESC : BLOCK [8, BYTE], ! Name of output file
252 0382 2 OUTPUT_RESULT_NAME : BLOCK [NAM$C_MAXRSS, BYTE]; ! Place to store output file name
253 0383 2
254 0384 2
255 0385 2 OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH] = %CHARCOUNT ('VMSMSG');
256 0386 2 OUTPUT_FILE_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
257 0387 2 OUTPUT_FILE_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
258 0388 2 OUTPUT_FILE_NAME_DESC [DSC$A_POINTER] = UPLIT ('VMSMSG');
259 0389 2
260 0390 2 ++ Initialize the FAB, NAM and RAB for the output file
261 0391 2 --
262 P 0392 2 $FAB_INIT (FAB = OUTPUT_FAB, !
```



```
263 P 0393 2 FAC = (PUT),
264 P 0394 2 FOP = (OFP, SQO, DFW),
265 P 0395 2 ORG = SEQ,
266 P 0396 2 SHR = NIL,
267 P 0397 2 MRS = 132,
268 P 0398 2 RAT = CR,
269 P 0399 2 RFM = VAR,
270 P 0400 2 FNA = .OUTPUT_FILE_NAME_DESC [DSC$A_POINTER],
271 P 0401 2 FNS = .OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH],
272 P 0402 2 DNA = UPLIT ('EDT$SRC:.TMP'),
273 P 0403 2 DNS = %CHARCOUNT ('EDT$SRC:.TMP'),
274 P 0404 2 NAM = OUTPUT_NAM;
275 P 0405 2 $NAM_INIT (NAM = OUTPUT_NAM,
276 P 0406 2 RSA = OUTPUT_RESULT_NAME,
277 P 0407 2 RSS = NAM$C_MAXRSS);
278 P 0408 2 $RAB_INIT (RAB = OUTPUT_RAB,
279 P 0409 2 RAC = SEQ,
280 P 0410 2 ROP = WBH,
281 P 0411 2 USZ = 132,
282 P 0412 2 UBF = OUTPUT_BUFFER,
283 P 0413 2 FAB = OUTPUT_FAB);
284 0414
285 0415 !+ Create the output file, and do the $CONNECT.
286 0416 !-
287 0417 BEGIN
288 0418
289 0419 LOCAL
290 0420 .STATUS,
291 0421 .CONNECT_STATUS;
292 0422
293 0423 CREATE_STATUS = $CREATE (FAB = OUTPUT_FAB);
294 0424
295 0425 IF ( NOT .CREATE_STATUS)
296 0426 THEN
297 0427 SIGNAL_STOP (
298 0428 SHR$_OPENOUT + (EDT$K_FAC_NO*65536) + STS$K_SEVERE,
299 0429 1,
300 0430 OUTPUT_FILE_NAME_DESC,
301 0431 .OUTPUT_FAB [FAB$L_ST$], .OUTPUT_FAB [FAB$L_STV]);
302 0432
303 0433 CONNECT_STATUS = $CONNECT (RAB = OUTPUT_RAB);
304 0434
305 0435 IF ( NOT .CONNECT_STATUS)
306 0436 THEN
307 0437 SIGNAL_STOP (
308 0438 SHR$_OPENOUT + (EDT$K_FAC_NO*65536) + STS$K_SEVERE,
309 0439 1,
310 0440 OUTPUT_FILE_NAME_DESC,
311 0441 .OUTPUT_RAB [RAB$L_ST$], .OUTPUT_RAB [RAB$L_STV]);
312 0442
313 0443 END;
314 0444 !+
315 0445 !- Point the file name descriptor to the resultant name string.
316 0446
317 0447 OUTPUT_FILE_NAME_DESC [DSC$W_LENGTH] = .OUTPUT_NAM [NAM$B_RSL];
318 0448 OUTPUT_FILE_NAME_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
319 0449 OUTPUT_FILE_NAME_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
```

```

320 0450 2 OUTPUT_FILE_NAME_DESC [DSC$A_POINTER] = .OUTPUT_NAM [NAM$A_RSA];
321 0451 2
322 0452 2 IF ( NOT WRITE_FILE (OUTPUT_RAB))
323 0453 2 THEN
324 0454 2 SIGNAL_STOP (
325 0455 2 SHR$WRITEERR + (EDT$K_FAC_NO*65536) + STS$K_SEVERE, !
326 0456 2 1,
327 0457 2 OUTPUT_FILE_NAME_DESC,
328 0458 2 .OUTPUT_RAB[RAB$L_ST$], .OUTPUT_RAB[RAB$L_STV]);
329 0459 2
330 0460 2 BEGIN
331 0461 2 +
332 0462 2 - Close the output file.
333 0463 2
334 0464 2
335 0465 2 LOCAL
336 0466 2 CLOSE_STATUS;
337 0467 2
338 0468 2 CLOSE_STATUS = $CLOSE (FAB = OUTPUT_FAB);
339 0469 2
340 0470 2 IF ( NOT .CLOSE_STATUS)
341 0471 2 THEN
342 0472 2 SIGNAL_STOP (
343 0473 2 SHR$CLOSEOUT + (EDT$K_FAC_NO*65536) + STS$K_SEVERE, !
344 0474 2 1,
345 0475 2 OUTPUT_FILE_NAME_DESC,
346 0476 2 .OUTPUT_FAB[FAB$L_ST$], .OUTPUT_FAB[FAB$L_STV]);
347 0477 2
348 0478 2 END;
349 0479 2 RETURN (SS$NORMAL);
350 0480 1 END;

```

! End of routine EDT\$WRIEDTMSG

```

.TITLE EDT$WRIEDTMSG EDT$WRIEDTMSG - write VMSMSG.MSG
.IDENT \V04-000\

```

```

.PSECT _EDT$CODE,NOWRT, SHR, PIC,2

```

```

00 50 4D 54 00 00 47 53 4D 53 4D 56 00000 P.AAA: .ASCII \VMSMSG\<0><0>
00 50 4D 54 2E 3A 43 52 53 54 44 45 00008 P.AAB: .ASCII \EDT$SRC:.TMP\<0>

```

```

.EXTRN STR$COPY_DX, STR$CONCAT
.EXTRN LIB$GET_INPUT, STR$COPY_R
.EXTRN STR$FREE1_DX, EDT$MSGTXT
.EXTRN SYSS$CREATE, SYSS$CONNECT
.EXTRN SYSS$CLOSE

```

007C 00000 EDT\$WRIEDTMSG:

```

.WORD Save R2,R3,R4,R5,R6
MOVAB LIB$STOP, R6
MOVAB -640(SP), SP
MOVL #17694726, OUTPUT_FILE_NAME_DESC
MOVAB P.AAA, OUTPUT_FILE_NAME_DESC+4
MOVCS #0, (SP), #0, #80, $RMS_PTR
MOVW #20483, $RMS_PTR
MOVL #536871008, $RMS_PTR+4

```

```

0050 8F 00
56 00000000G 00 9E 00002
5E FD80 CE 9E 00009
0100 CE 010E0006 8F D0 0000E
0104 CE D2 AF 9E 00017
6E 00 2C 0001D
FF2C CD 00024
FF30 CD 5003 8F B0 00027
CD 20000060 8F D0 0002E

```

```

: 0337
:
: 0385
: 0388
: 0404
:

```



0060	8F	00	FF42	CD	2001	8F	B0	00037	MOVW	#8193, \$RMS_PTR+22	
			FF49	CD	0200	8F	B0	0003E	MOVW	#512, \$RMS_PTR+29	
			FF4B	CD		02	90	00045	MOVB	#2, \$RMS_PTR+31	
			FF54	CD	FECC	CD	9E	0004A	MOVAB	OUTPUT_NAM, \$RMS_PTR+40	
			FF58	CD	0104	CE	DO	00051	MOVL	OUTPUT_FILE_NAME_DESC+4, \$RMS_PTR+44	
			FF5C	CD	99	AF	9E	00058	MOVAB	P.AAB, \$RMS_PTR+48	
			FF60	CD	0100	CE	90	0005E	MOVB	OUTPUT_FILE_NAME_DESC, \$RMS_PTR+52	
			FF61	CD		0B	90	00065	MOVB	#11, \$RMS_PTR+53	
			FF62	CD	84	8F	9B	0006A	MOVZBW	#132, \$RMS_PTR+54	
				6E		00	2C	00070	MOVC5	#0, (SP), #0, #96, \$RMS_PTR	0407
					FECC	CD		00077			
			FECC	CD	6002	8F	B0	0007A	MOVW	#24578, \$RMS_PTR	
			FECE	CD		01	8E	00081	MNEGB	#1, \$RMS_PTR+2	
0044	8F	00	FED0	CD		6E	9E	00086	MOVAB	OUTPUT_RESULT_NAME, \$RMS_PTR+4	
				6E		00	2C	0008B	MOVC5	#0, (SP), #0, #68, \$RMS_PTR	0413
					0108	CE		00092			
			0108	CE	4401	8F	B0	00095	MOVW	#17409, \$RMS_PTR	
			010C	CE	0400	8F	3C	0009C	MOVZWL	#1024, \$RMS_PTR+4	
					0126	CE	94	000A3	CLRB	\$RMS_PTR+30	
			0128	CE	84	8F	9B	000A7	MOVZBW	#132, \$RMS_PTR+32	
			012C	CE	FF7C	CD	9E	000AD	MOVAB	OUTPUT_BUFFER, \$RMS_PTR+36	
			FEC4	CD	FF2C	CD	9E	000B4	MOVAB	OUTPUT_FAB, \$RMS_PTR+60	
					FF2C	CD	9F	000BB	PUSHAB	OUTPUT_FAB	0423
00000000G		00				01	FB	000BF	CALLS	#1, SYS\$CREATE	
		14				50	E8	000C6	BLBS	CREATE_STATUS, 1\$	0425
		7E			FF34	CD	7D	000C9	MOVQ	OUTPUT_FAB+8, -(SP)	0431
					0108	CE	9F	000CE	PUSHAB	OUTPUT_FILE_NAME_DESC	0427
						01	DD	000D2	PUSHL	#1	
					008510A4	8F	DD	000D4	PUSHL	#8720548	0428
		66				05	FB	000DA	CALLS	#5, LIB\$STOP	
					0108	CE	9F	000DD	PUSHAB	OUTPUT_RAB	0433
00000000G		00				01	FB	000E1	CALLS	#1, SYS\$CONNECT	
		17				50	E8	000E8	BLBS	CONNECT_STATUS, 2\$	0435
					0114	CE	DD	000EB	PUSHL	OUTPUT_RAB+12	0441
					0114	CE	DD	000EF	PUSHL	OUTPUT_RAB+8	
					0108	CE	9F	000F3	PUSHAB	OUTPUT_FILE_NAME_DESC	0437
						01	DD	000F7	PUSHL	#1	
					00851CA4	8F	DD	000F9	PUSHL	#8720548	0438
		66				05	FB	000FF	CALLS	#5, LIB\$STOP	
					0100	CE	9B	00102	MOVZBW	OUTPUT_NAM+3, OUTPUT_FILE_NAME_DESC	0447
					0102	CE	8F	00109	MOVW	#270, OUTPUT_FILE_NAME_DESC+2	0448
					0104	CE	DO	00110	MOVL	OUTPUT_NAM+4, OUTPUT_FILE_NAME_DESC+4	0450
						CE	9F	00117	PUSHAB	OUTPUT_RAB	0452
0000V		CF				01	FB	0011B	CALLS	#1, WRITE_FILE	
		17				50	E8	00120	BLBS	R0, 3\$	
					0114	CE	DD	00123	PUSHL	OUTPUT_RAB+12	0458
					0114	CE	DD	00127	PUSHL	OUTPUT_RAB+8	
					0108	CE	9F	0012B	PUSHAB	OUTPUT_FILE_NAME_DESC	0454
						01	DD	0012F	PUSHL	#1	
					008510D4	8F	DD	00131	PUSHL	#8720596	0455
		66				05	FB	00137	CALLS	#5, LIB\$STOP	
					FF2C	CD	9F	0013A	PUSHAB	OUTPUT_FAB	0468
00000000G		00				01	FB	0013E	CALLS	#1, SYS\$CLOSE	
		14				50	E8	00145	BLBS	CLOSE_STATUS, 4\$	0470
		7E			FF34	CD	7D	00148	MOVQ	OUTPUT_FAB+8, -(SP)	0476
					0108	CE	9F	0014D	PUSHAB	OUTPUT_FILE_NAME_DESC	0472
						01	DD	00151	PUSHL	#1	

EDT\$WRIEDTMSG  
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG  
EDT\$WRIEDTMSG - Write VMSMSG.TMP

J 3  
16-Sep-1984 02:18:31  
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]WRIEDTMSG.B32;1

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(4)

0085105C 8F DD 00153  
66 05 FB 00159  
50 01 D0 0015C 4\$:  
04 0015F  
PUSHL #8720476  
CALLS #5, LIB\$STOP  
MOVL #1, R0  
RET

: 0473  
:  
: 0479  
: 0480

; Routine Size: 352 bytes, Routine Base: \_EDT\$CODE + 0014

EDT\$  
V04-

; Rc



```
352 0481 1 %SBTTL 'WRITE_FILE - Actually write the file'
353 0482 1 ROUTINE WRITE_FILE (
354 0483 1     OUTPUT_RAB
355 0484 1 ) =
356 0485 1
357 0486 1 ++
358 0487 1 FUNCTIONAL DESCRIPTION:
359 0488 1
360 0489 1     This routine writes each record on the specified RAB.
361 0490 1
362 0491 1 CALLING SEQUENCE:
363 0492 1
364 0493 1     ret_status.wlc.v = WRITE_FILE (OUTPUT_RAB.mz.r)
365 0494 1
366 0495 1 FORMAL PARAMETERS:
367 0496 1
368 0497 1     OUTPUT_RAB           RAB onto which to write the text
369 0498 1
370 0499 1 IMPLICIT INPUTS:
371 0500 1
372 0501 1     NONE
373 0502 1
374 0503 1 IMPLICIT OUTPUTS:
375 0504 1
376 0505 1     None
377 0506 1
378 0507 1 COMPLETION STATUS:
379 0508 1
380 0509 1     $$$_NORMAL      Normal successful completion
381 0510 1     Any errors from RMS $PUT
382 0511 1
383 0512 1 SIDE EFFECTS:
384 0513 1
385 0514 1     Writes on the file connect@d to OUTPUT_RAB
386 0515 1
387 0516 1 --
388 0517 1
389 0518 2 BEGIN
390 0519 2
391 0520 2 MAP
392 0521 2     OUTPUT_RAB : REF $RAB_DECL;
393 0522 2
394 0523 2 LOCAL
395 0524 2 ++
396 0525 2 Stuff for BUILD_TEXT_LINE
397 0526 2 -
398 0527 2     CTL_STR_DSC : BLOCK [8, BYTE],
399 0528 2     TEMP_STR_DSC : BLOCK [8, BYTE],
400 0529 2     TEMP_STRING : VECTOR [132, BYTE],
401 0530 2     OUT_LENGTH,
402 0531 2 ++
403 0532 2 Stuff for PRINT_LINE
404 0533 2 -
405 0534 2     LINE_DESC : BLOCK [8, BYTE],
406 0535 2 ++
407 0536 2 End of stuff for PRINT_LINE
408 0537 2 -
```

```
409 0538 2 PRINTABLE_DESC : BLOCK [8, BYTE],
410 0539 2 HEX_DESC : BLOCK [8, BYTE],
411 0540 2 TEXT_DESC : BLOCK [8, BYTE],
412 0541 2 NAME_DESC : BLOCK [8, BYTE],
413 0542 2 SEVERITY_DESC : BLOCK [8, BYTE],
414 0543 2 NAME_LENGTH,
415 0544 2 TEXT_LENGTH,
416 0545 2 SEVERITY_LENGTH,
417 0546 2 SEVERITY_ADDR : REF VECTOR [, BYTE];
418 0547 2
419 0548 2 !+
420 0549 2 !- Set up TEMP_STR_DSC for BUILD_TEXT_LINE
421 0550 2 !-
422 0551 2 TEMP_STR_DSC [DSC$W_LENGTH] = 132;
423 0552 2 TEMP_STR_DSC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
424 0553 2 TEMP_STR_DSC [DSC$B_CLASS] = DSC$K_CLASS_S;
425 0554 2 TEMP_STR_DSC [DSC$A_POINTER] = CH$PTR (TEMP_STRING);
426 0555 2 !+
427 0556 2 !- Set up LINE_DESC for PRINT_LINE, etc.
428 0557 2 !-
429 0558 2 INIT_DESCRIPTOR (LINE_DESC);
430 0559 2 INIT_DESCRIPTOR (PRINTABLE_DESC);
431 0560 2 INIT_DESCRIPTOR (HEX_DESC);
432 0561 2 INIT_DESCRIPTOR (TEXT_DESC);
433 0562 2 INIT_DESCRIPTOR (NAME_DESC);
434 0563 2 INIT_DESCRIPTOR (SEVERITY_DESC);
435 0564 2 !+
436 0565 2 !- Put out the initial information.
437 0566 2 !-
438 0567 2 PRINT_LINE (<'!!! This file, VMSMSG.TMP, contains the definitions of the EDT'>, <' '>);
439 0568 2 PRINT_LINE (<'!!! messages for VAX/VMS. This file is read by the MESSAGE compiler'>, <' '>);
440 0569 2 PRINT_LINE (<'!!! to build an object file containing the EDT messages.'>, <' '>);
441 0570 2 PRINT_LINE (<'!!!'>, <' '>);
442 0571 2 PRINT_LINE (<' .TITLE EDT$VMSMSG EDT's message text'>, <' '>);
443 0572 2 PRINT_LINE (<'!!!'>, <' '>);
444 0573 2 PRINT_LINE (<' .FACILITY/SYSTEM EDT, !SL'>, <EDT$K_FAC_NO>);
445 0574 2 !+
446 0575 2 !- Write a line for each message
447 0576 2 !-
448 0577 2
449 0578 2 INCR CODE FROM 0 TO 4095 DO
450 0579 2 BEGIN
451 0580 2 EDT$MSGTXT (CODE, SEVERITY_DESC, NAME_LENGTH, NAME_DESC, TEXT_LENGTH, TEXT_DESC);
452 0581 2 !+
453 0582 2 !- If the severity field is blank we are done.
454 0583 2 !-
455 0584 2 SEVERITY_ADDR = .SEVERITY_DESC [DSC$A_POINTER];
456 0585 2
457 0586 2 IF (.SEVERITY_ADDR [0] EQL ' ') THEN EXITLOOP;
458 0587 2
459 0588 2 PRINT_LINE (<'!AS/!AS <!AS>'>, <NAME_DESC, SEVERITY_DESC, TEXT_DESC>);
460 0589 2 END;
461 0590 2 !+
462 0591 2 !- Write out the trailer line
463 0592 2 !-
464 0593 2
465 0594 2 PRINT_LINE (<' .END'>, <' '>);
```



```
: 466      0595  2  !+
: 467      0596  2  !- All done.
: 468      0597  2  !-
: 469      0598  2  DISCARD_DESCRIPTOR (LINE_DESC);
: 470      0599  2  DISCARD_DESCRIPTOR (PRINTABLE_DESC);
: 471      0600  2  DISCARD_DESCRIPTOR (HEX_DESC);
: 472      0601  2  DISCARD_DESCRIPTOR (TEXT_DESC);
: 473      0602  2  DISCARD_DESCRIPTOR (NAME_DESC);
: 474      0603  2  DISCARD_DESCRIPTOR (SEVERITY_DESC);
: 475      0604  2  RETURN (SS$NORMAL);
: 476      0605  1  END;

! End of routine WRITE_FILE
```

```
56 20 2C 65 6C 69 66 20 73 69 68 54 20 21 21 00174 P.AAC: .ASCII \!! This file, VMSMSG.TMP, contains the d\
74 6E 6F 63 20 2C 50 4D 54 2E 47 53 4D 53 4D 00183
64 20 65 68 74 20 73 6E 69 61 00192
74 20 66 6F 20 73 6E 6F 69 74 69 6E 69 66 65 0019C .ASCII \efinitions of the EDT\<0><0><0>
00 00 00 54 44 45 20 65 68 001AB
72 6F 66 20 73 65 67 61 73 73 65 6D 20 21 21 001B4 P.AAD: .ASCII \!! messages for VAX/VMS. This file is r\
73 69 68 54 20 20 2E 53 4D 56 2F 58 41 56 20 001C3
72 20 73 69 20 65 6C 69 66 20 001D2
53 53 45 4D 20 65 68 74 20 79 62 20 64 61 65 001DC .ASCII \ead by the MESSAGE compiler\<0>
00 72 20 73 69 20 65 6C 69 70 6D 6F 63 20 45 47 41 001EB
20 6E 61 20 64 6C 69 75 62 20 6F 74 20 21 21 001F8 P.AAE: .ASCII \!! to build an object file containing th\
6E 6F 63 20 65 6C 69 66 20 74 63 65 6A 62 6F 00207
68 74 20 67 6E 69 6E 69 61 74 00216
2E 73 65 67 61 73 73 65 6D 20 54 44 45 20 65 00220 .ASCII \e EDT messages.\<0>
00 00 21 21 00230 P.AAF: .ASCII \!!\<0><0>
00234 P.AAG: .ASCII \ .TITLE EDT$VMSMSG EDT's message \
27 54 44 45 20 47 53 4D 53 4D 56 24 54 44 45 00243
20 65 67 61 73 73 65 6D 20 73 00252
74 78 65 74 0025C .ASCII \text\
00 00 21 21 00260 P.AAH: .ASCII \!!\<0><0>
45 54 53 59 53 2F 59 54 49 4C 49 43 41 46 2E 00264 P.AAI: .ASCII \.FACILITY/SYSTEM EDT, !SL\<0><0><0>
00 00 00 00 00 4C 53 21 20 2C 54 44 45 20 4D 00273
00 00 3E 53 41 21 3C 20 53 41 21 2F 53 41 21 00280 P.AAJ: .ASCII \!AS/!AS <!AS>\<0><0><0>
0028F
44 4E 45 2E 00290 P.AAK: .ASCII \.END\
.EXTRN SYSS$FAO
```

## 01FC 00000 WRITE\_FILE:

```
58 0000V CF 9E 00002 .WORD Save R2,R3,R4,R5,R6,R7,R8 : 0482
57 00000000G 00 9E 00007 MOVAB PRINT, R8
56 00000000G 00 9E 0000E MOVAB STR$FREE1 DX, R7
55 00000000G 00 9E 00015 MOVAB STR$COPY_R, R6
54 00000000G 00 9E 0001C MOVAB SYSS$FAO, R5
5E FF2C CE 9E 00023 MOVAB LIB$STOP, R4
F0 AD 010E0084 8F D0 00028 MOVAB -212(SP), SP
F4 AD 40 AE 9E 00030 MOVAB #17694852, TEMP_STR_DSC : 0551
38 AE 020E0000 8F D0 00035 MOVAB TEMP_STRING, TEMP_STR_DSC+4 : 0554
3C AE D4 0003D CLRL #34471936, LINE_DESC : 0558
30 AE 020E0000 8F D0 00040 MOVAB #34471936, PRINTABLE_DESC : 0559
34 AE D4 00048 CLRL PRINTABLE_DESC+4
```

28	AE	020E0000	8F	DO	0004B	MOVL	#34471936, HEX_DESC	: 0560
		2C	AE	D4	00053	CLRL	HEX_DESC+4	:
20	AE	020E0000	8F	DO	00056	MOVL	#34471936, TEXT_DESC	: 0561
		24	AE	D4	0005E	CLRL	TEXT_DESC+4	:
18	AE	020E0000	8F	DO	00061	MOVL	#34471936, NAME_DESC	: 0562
		1C	AE	D4	00069	CLRL	NAME_DESC+4	:
10	AE	020E0000	8F	DO	0006C	MOVL	#34471936, SEVERITY_DESC	: 0563
		14	AE	D4	00074	CLRL	SEVERITY_DESC+4	:
F8	AD	010E003D	8F	DO	00077	MOVL	#17694787, CTL_STR_DSC	: 0567
FC	AD	FE5D	CF	9E	0007F	MOVAB	P.AAC, CTL_STR_DSC+4	:
			20	DD	00085	PUSHL	#32	:
		F0	AD	9F	00087	PUSHAB	TEMP_STR_DSC	:
		14	AE	9F	0008A	PUSHAB	OUT_LENGTH	:
		F8	AD	9F	0008D	PUSHAB	CTL_STR_DSC	:
65			04	FB	00090	CALLS	#4, SYS\$FAO	:
05			50	E8	00093	BLBS	FAO_STATUS, 1\$	:
			50	DD	00096	PUSHL	FAO_STATUS	:
64			01	FB	00098	CALLS	#1, LIB\$STOP	:
		F4	AD	DD	0009B	PUSHL	TEMP_STR_DSC+4	:
		10	AE	9F	0009E	PUSHAB	OUT_LENGTH	:
		40	AE	9F	000A1	PUSHAB	LINE_DESC	:
66			03	FB	000A4	CALLS	#3, STR\$COPY_R	:
7D			50	E9	000A7	BLBC	BUILD_STATUS, 4\$	:
		38	AE	9F	000AA	PUSHAB	LINE_DESC	:
52		04	AC	DO	000AD	MOVL	OUTPUT_RAB, R2	:
			52	DD	000B1	PUSHL	R2	:
68			02	FB	000B3	CALLS	#2, PRINT	:
79			50	E9	000B6	BLBC	PRINT_STATUS, 5\$	:
F8	AD	010E0043	8F	DO	000B9	MOVL	#17694787, CTL_STR_DSC	: 0568
FC	AD	FE5B	CF	9E	000C1	MOVAB	P.AAD, CTL_STR_DSC+4	:
			20	DD	000C7	PUSHL	#32	:
		F0	AD	9F	000C9	PUSHAB	TEMP_STR_DSC	:
		14	AE	9F	000CC	PUSHAB	OUT_LENGTH	:
		F8	AD	9F	000CF	PUSHAB	CTL_STR_DSC	:
65			04	FB	000D2	CALLS	#4, SYS\$FAO	:
05			50	E8	000D5	BLBS	FAO_STATUS, 2\$	:
			50	DD	000D8	PUSHL	FAO_STATUS	:
64			01	FB	000DA	CALLS	#1, LIB\$STOP	:
		F4	AD	DD	000DD	PUSHL	TEMP_STR_DSC+4	:
		10	AE	9F	000E0	PUSHAB	OUT_LENGTH	:
		40	AE	9F	000E3	PUSHAB	LINE_DESC	:
66			03	FB	000E6	CALLS	#3, STR\$COPY_R	:
79			50	E9	000E9	BLBC	BUILD_STATUS, 7\$	:
		38	AE	9F	000EC	PUSHAB	LINE_DESC	:
			52	DD	000EF	PUSHL	R2	:
68			02	FB	000F1	CALLS	#2, PRINT	:
79			50	E9	000F4	BLBC	PRINT_STATUS, 8\$	:
F8	AD	010E0037	8F	DO	000F7	MOVL	#17694775, CTL_STR_DSC	: 0569
FC	AD	FE61	CF	9E	000FF	MOVAB	P.AAE, CTL_STR_DSC+4	:
			20	DD	00105	PUSHL	#32	:
		F0	AD	9F	00107	PUSHAB	TEMP_STR_DSC	:
		14	AE	9F	0010A	PUSHAB	OUT_LENGTH	:
		F8	AD	9F	0010D	PUSHAB	CTL_STR_DSC	:
65			04	FB	00110	CALLS	#4, SYS\$FAO	:
05			50	E8	00113	BLBS	FAO_STATUS, 3\$	:
			50	DD	00116	PUSHL	FAO_STATUS	:
64			01	FB	00118	CALLS	#1, LIB\$STOP	:



		F4	AD	DD	0011B	3\$:	PUSHL	TEMP_STR_DSC+4		
		10	AE	9F	0011E		PUSHAB	OUT_LENGTH		
		40	AE	9F	00121		PUSHAB	LINE_DESC		
	66		03	FB	00124		CALLS	#3, STR\$COPY_R		
	79		50	E9	00127	4\$:	BLBC	BUILD_STATUS, 10\$		
		38	AE	9F	0012A		PUSHAB	LINE_DESC		
			52	DD	0012D		PUSHL	R2		
	68		02	FB	0012F		CALLS	#2, PRINT		
	79		50	E9	00132	5\$:	BLBC	PRINT_STATUS, 11\$		
F8	AD	010E0002	8F	D0	00135		MOVL	#17694722, CTL_STR_DSC		
FC	AD	FE5B	CF	9E	0013D		MOVAB	P.AAF, CTL_STR_DSC+4	0570	
			20	DD	00143		PUSHL	#32		
		F0	AD	9F	00145		PUSHAB	TEMP_STR_DSC		
		14	AE	9F	00148		PUSHAB	OUT_LENGTH		
		F8	AD	9F	0014B		PUSHAB	CTL_STR_DSC		
	65		04	FB	0014E		CALLS	#4, -SYS\$FAO		
	05		50	E8	00151		BLBS	FAO_STATUS, 6\$		
			50	DD	00154		PUSHL	FAO_STATUS		
	64		01	FB	00156		CALLS	#1, -LIB\$STOP		
		F4	AD	DD	00159	6\$:	PUSHL	TEMP_STR_DSC+4		
		10	AE	9F	0015C		PUSHAB	OUT_LENGTH		
		40	AE	9F	0015F		PUSHAB	LINE_DESC		
	66		03	FB	00162		CALLS	#3, STR\$COPY_R		
	79		50	E9	00165	7\$:	BLBC	BUILD_STATUS, 13\$		
		38	AE	9F	00168		PUSHAB	LINE_DESC		
			52	DD	0016B		PUSHL	R2		
	68		02	FB	0016D		CALLS	#2, PRINT		
	79		50	E9	00170	8\$:	BLBC	PRINT_STATUS, 14\$		
F8	AD	010E002C	8F	D0	00173		MOVL	#17694764, CTL_STR_DSC		
FC	AD	FE21	CF	9E	0017B		MOVAB	P.AAG, CTL_STR_DSC+4	0571	
			20	DD	00181		PUSHL	#32		
		F0	AD	9F	00183		PUSHAB	TEMP_STR_DSC		
		14	AE	9F	00186		PUSHAB	OUT_LENGTH		
		F8	AD	9F	00189		PUSHAB	CTL_STR_DSC		
	65		04	FB	0018C		CALLS	#4, -SYS\$FAO		
	05		50	E8	0018F		BLBS	FAO_STATUS, 9\$		
			50	DD	00192		PUSHL	FAO_STATUS		
	64		01	FB	00194		CALLS	#1, -LIB\$STOP		
		F4	AD	DD	00197	9\$:	PUSHL	TEMP_STR_DSC+4		
		10	AE	9F	0019A		PUSHAB	OUT_LENGTH		
		40	AE	9F	0019D		PUSHAB	LINE_DESC		
	66		03	FB	001A0		CALLS	#3, STR\$COPY_R		
	78		50	E9	001A3	10\$:	BLBC	BUILD_STATUS, 16\$		
		38	AE	9F	001A6		PUSHAB	LINE_DESC		
			52	DD	001A9		PUSHL	R2		
	68		02	FB	001AB		CALLS	#2, PRINT		
	78		50	E9	001AE	11\$:	BLBC	PRINT_STATUS, 17\$		
F8	AD	010E0002	8F	D0	001B1		MOVL	#17694722, CTL_STR_DSC		
FC	AD	FE0F	CF	9E	001B9		MOVAB	P.AAH, CTL_STR_DSC+4	0572	
			20	DD	001BF		PUSHL	#32		
		F0	AD	9F	001C1		PUSHAB	TEMP_STR_DSC		
		14	AE	9F	001C4		PUSHAB	OUT_LENGTH		
		F8	AD	9F	001C7		PUSHAB	CTL_STR_DSC		
	65		04	FB	001CA		CALLS	#4, -SYS\$FAO		
	05		50	E8	001CD		BLBS	FAO_STATUS, 12\$		
			50	DD	001D0		PUSHL	FAO_STATUS		
	64		01	FB	001D2		CALLS	#1, -LIB\$STOP		

		F4	AD	DD	001D5	12\$:	PUSHL	TEMP_STR_DSC+4		
		10	AE	9F	001D8		PUSHAB	OUT_LENGTH		
		40	AE	9F	001DB		PUSHAB	LINE_DESC		
66			03	FB	001DE		CALLS	#3, STR\$COPY_R		
48			50	E9	001E1	13\$:	BLBC	BUILD_STATUS, 17\$		
		38	AE	9F	001E4		PUSHAB	LINE_DESC		
			52	DD	001E7		PUSHL	R2		
68			02	FB	001E9		CALLS	#2, PRINT		
3D			50	E9	001EC	14\$:	BLBC	PRINT_STATUS, 17\$		
F8	AD	010E0019	8F	D0	001EF		MOVL	#17694745, CTL_STR_DSC	0573	
FC	AD	FDD5	CF	9E	001F7		MOVAB	P.AAI, CTL_STR_DSC+4		
		7E	85	8F	9A		MOVZBL	#133, -(SP)		
			F0	AD	9F		PUSHAB	TEMP_STR_DSC		
			14	AE	9F		PUSHAB	OUT_LENGTH		
			F8	AD	9F		PUSHAB	CTL_STR_DSC		
65			04	FB	0020A		CALLS	#4, SYS\$FAO		
05			50	E8	0020D		BLBS	FAO_STATUS, 15\$		
			50	DD	00210		PUSHL	FAO_STATUS		
64			01	FB	00212		CALLS	#1, LIB\$STOP		
		F4	AD	DD	00215	15\$:	PUSHL	TEMP_STR_DSC+4		
		10	AE	9F	00218		PUSHAB	OUT_LENGTH		
		40	AE	9F	0021B		PUSHAB	LINE_DESC		
66			03	FB	0021E		CALLS	#3, STR\$COPY_R		
72			50	E9	00221	16\$:	BLBC	BUILD_STATUS, 20\$		
		38	AE	9F	00224		PUSHAB	LINE_DESC		
			52	DD	00227		PUSHL	R2		
68			02	FB	00229		CALLS	#2, PRINT		
67			50	E9	0022C	17\$:	BLBC	PRINT_STATUS, 20\$		
		08	AE	D4	0022F		CLRL	CODE	0578	
		20	AE	9F	00232	18\$:	PUSHAB	TEXT_DESC	0580	
		04	AE	9F	00235		PUSHAB	TEXT_LENGTH		
		20	AE	9F	00238		PUSHAB	NAME_DESC		
		10	AE	9F	0023B		PUSHAB	NAME_LENGTH		
		20	AE	9F	0023E		PUSHAB	SEVERITY_DESC		
		1C	AE	9F	00241		PUSHAB	CODE		
00000000G	00		06	FB	00244		CALLS	#6, EDT\$MSGTXT		
	53	14	AE	D0	0024B		MOVL	SEVERITY_DESC+4, SEVERITY_ADDR	0584	
	20		63	91	0024F		CMPB	(SEVERITY_ADDR), #32	0586	
			4E	13	00252		BEQL	21\$		
F8	AD	010E0C0D	8F	D0	00254		MOVL	#17694733, CTL_STR_DSC	0588	
FC	AD	FD8C	CF	9E	0025C		MOVAB	P.AAJ, CTL_STR_DSC+4		
		20	AE	9F	00262		PUSHAB	TEXT_DESC		
		14	AE	9F	00265		PUSHAB	SEVERITY_DESC		
		20	AE	9F	00268		PUSHAB	NAME_DESC		
		F0	AD	9F	0026B		PUSHAB	TEMP_STR_DSC		
		1C	AE	9F	0026E		PUSHAB	OUT_LENGTH		
		F8	AD	9F	00271		PUSHAB	CTL_STR_DSC		
65			06	FB	00274		CALLS	#6, SYS\$FAO		
05			50	E8	00277		BLBS	FAO_STATUS, 19\$		
			50	DD	0027A		PUSHL	FAO_STATUS		
64			01	FB	0027C		CALLS	#1, LIB\$STOP		
		F4	AD	DD	0027F	19\$:	PUSHL	TEMP_STR_DSC+4		
		10	AE	9F	00282		PUSHAB	OUT_LENGTH		
		40	AE	9F	00285		PUSHAB	LINE_DESC		
66			03	FB	00288		CALLS	#3, STR\$COPY_R		
4F			50	E9	0028B		BLBC	BUILD_STATUS, 23\$		
		38	AE	9F	0028E		PUSHAB	LINE_DESC		



90	08	68		52	DD	00291	PUSHL	R2			
	F8	44		02	FB	00293	CALLS	#2, PRINT			
	FC	AE	00000FFF	50	E9	00296	20\$:	BLBC	PRINT STATUS, 23\$		
		AD	010E0004	8F	F3	00299	AOBLEQ	#4095, CODE, 18\$		0578	
		AD	FD4E	8F	D0	002A2	21\$:	MOVL	#17694724, CTL_STR_DSC	0594	
				CF	9E	002AA	MOVAB	P_AAK, CTL_STR_DSC+4			
				20	DD	002B0	PUSHL	#32			
			F0	AD	9F	002B2	PUSHAB	TEMP_STR_DSC			
			14	AE	9F	002B5	PUSHAB	OUT_LENGTH			
			F8	AD	9F	002B8	PUSHAB	CTL_STR_DSC			
		65		04	FB	002BB	CALLS	#4, SYSSFAO			
		05		50	E8	002BE	BLBS	FAO STATUS, 22\$			
				50	DD	002C1	PUSHL	FAO STATUS			
		64		01	FB	002C3	CALLS	#1, LIB\$STOP			
			F4	AD	DD	002C6	22\$:	PUSHL	TEMP_STR_DSC+4		
			10	AE	9F	002C9	PUSHAB	OUT_LENGTH			
			40	AE	9F	002CC	PUSHAB	LINE_DESC			
		66		03	FB	002CF	CALLS	#3, STR\$COPY_R			
		62		50	E9	002D2	BLBC	BUILD STATUS, 30\$			
			38	AE	9F	002D5	PUSHAB	LINE_DESC			
				52	DD	002D8	PUSHL	R2			
		68		02	FB	002DA	CALLS	#2, PRINT			
		57		50	E9	002DD	23\$:	BLBC	PRINT STATUS, 30\$		
			38	AE	9F	002E0	PUSHAB	LINE_DESC		0598	
		67		01	FB	002E3	CALLS	#1, STR\$FREE1 DX			
		05		50	E8	002E6	BLBS	FREE STATUS, 24\$			
				50	DD	002E9	PUSHL	FREE STATUS			
		64		01	FB	002EB	CALLS	#1, LIB\$STOP			
			30	AE	9F	002EE	24\$:	PUSHAB	PRINTABLE_DESC	0599	
		67		01	FB	002F1	CALLS	#1, STR\$FREE1 DX			
		05		50	E8	002F4	BLBS	FREE STATUS, 25\$			
				50	DD	002F7	PUSHL	FREE STATUS			
		64		01	FB	002F9	CALLS	#1, LIB\$STOP			
			28	AE	9F	002FC	25\$:	PUSHAB	HEX_DESC	0600	
		67		01	FB	002FF	CALLS	#1, STR\$FREE1 DX			
		05		50	E8	00302	BLBS	FREE STATUS, 26\$			
				50	DD	00305	PUSHL	FREE STATUS			
		64		01	FB	00307	CALLS	#1, LIB\$STOP			
			20	AE	9F	0030A	26\$:	PUSHAB	TEXT_DESC	0601	
		67		01	FB	0030D	CALLS	#1, STR\$FREE1 DX			
		05		50	E8	00310	BLBS	FREE STATUS, 27\$			
				50	DD	00313	PUSHL	FREE STATUS			
		64		01	FB	00315	CALLS	#1, LIB\$STOP			
			18	AE	9F	00318	27\$:	PUSHAB	NAME_DESC	0602	
		67		01	FB	0031B	CALLS	#1, STR\$FREE1 DX			
		05		50	E8	0031E	BLBS	FREE STATUS, 28\$			
				50	DD	00321	PUSHL	FREE STATUS			
		64		01	FB	00323	CALLS	#1, LIB\$STOP			
			10	AE	9F	00326	28\$:	PUSHAB	SEVERITY_DESC	0603	
		67		01	FB	00329	CALLS	#1, STR\$FREE1 DX			
		05		50	E8	0032C	BLBS	FREE STATUS, 29\$			
				50	DD	0032F	PUSHL	FREE STATUS			
		64		01	FB	00331	CALLS	#1, LIB\$STOP			
		50		01	D0	00334	29\$:	MOVL	#1, R0	0604	
				04	00337	30\$:	RET			0605	

; Routine Size: 824 bytes, Routine Base: \_EDT\$CODE + 0294

EDT\$WRIEDTMSG  
V04-000

EDT\$WRIEDTMSG - write VM\$MSG.MSG  
WRITE\_FILE - Actually write the file

E 4  
16-Sep-1984 02:18:31  
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]WRIEDTMSG.B32;1

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EDT\$  
V04-



```

: 478 0606 1 %SBTTL 'PRINT - print a text line on a file'
: 479 0607 1 ROUTINE PRINT (
: 480 0608 1     RAB_ADDR,
: 481 0609 1     TEXT_LINE
: 482 0610 1 ) =
: 483 0611 1
: 484 0612 1 !++
: 485 0613 1 ! FUNCTIONAL DESCRIPTION:
: 486 0614 1 !
: 487 0615 1 !     This routine interfaces to RMS to print a line of text.
: 488 0616 1 !
: 489 0617 1 ! CALLING SEQUENCE:
: 490 0618 1 !
: 491 0619 1 !     ret_status.wlc.v = PRINT (RAB_ADDR.mz.r, TEXT_LINE.rt.dx)
: 492 0620 1 !
: 493 0621 1 ! FORMAL PARAMETERS:
: 494 0622 1 !
: 495 0623 1 !     RAB_ADDR
: 496 0624 1 !     TEXT_LINE
: 497 0625 1 !
: 498 0626 1 ! IMPLICIT INPUTS:
: 499 0627 1 !
: 500 0628 1 !     NONE
: 501 0629 1 !
: 502 0630 1 ! IMPLICIT OUTPUTS:
: 503 0631 1 !
: 504 0632 1 !     NONE
: 505 0633 1 !
: 506 0634 1 ! COMPLETION STATUS:
: 507 0635 1 !
: 508 0636 1 !     $$$_NORMAL      Normal successful completion
: 509 0637 1 !     All RMS errors are returned to the caller, so that they can be
: 510 0638 1 !     signalled with the file name.
: 511 0639 1 !
: 512 0640 1 ! SIDE EFFECTS:
: 513 0641 1 !
: 514 0642 1 !     Does a $PUT to the RAB.
: 515 0643 1 !
: 516 0644 1 ! --
: 517 0645 1 !
: 518 0646 2 ! BEGIN
: 519 0647 2 !
: 520 0648 2 ! MAP
: 521 0649 2 !     RAB_ADDR : REF $RAB DECL,
: 522 0650 2 !     TEXT_LINE : REF BLOCK [8, BYTE];
: 523 0651 2 !
: 524 0652 2 ! LOCAL
: 525 0653 2 !     PUT_STATUS;
: 526 0654 2 !
: 527 0655 2 ! +
: 528 0656 2 ! Fill in the RAB fields.
: 529 0657 2 ! -
: 530 0658 2 !     RAB_ADDR [RAB$W_RSZ] = .TEXT_LINE [DSC$W_LENGTH];
: 531 0659 2 !     RAB_ADDR [RAB$L_RBF] = .TEXT_LINE [DSC$A_POINTER];
: 532 0660 2 ! +
: 533 0661 2 ! Now do the $PUT
: 534 0662 2 ! -
```

```

      .EXTRN  SYSSPUT

```

0607  
0658  
0659  
0663  
0665  
0667  
0668

; Routine Size: 35 bytes, Routine Base: \_EDT\$CODE + 05CC



```

542 0669 1 %SBTTL 'HEX_TEXT - Return a binary string in hexadecimal'
543 0670 1 ROUTINE HEX_TEXT (
544 0671 1     OUTPUT_DESC,
545 0672 1     INPUT_LEN,
546 0673 1     INPUT_ADDR
547 0674 1 ) =
548 0675 1
549 0676 1
550 0677 1 ++
551 0678 1 FUNCTIONAL DESCRIPTION:
552 0679 1     This routine converts an arbitrary string of bytes into hex, so it
553 0680 1     can be printed. Early bytes are put to the right of later bytes.
554 0681 1
555 0682 1 CALLING SEQUENCE:
556 0683 1
557 0684 1     status.wlc.v = HEX_TEXT (OUTPUT_desc.wt.dx, INPUT_LEN.rl.v, INPUT_ADDR.ra.v)
558 0685 1
559 0686 1 FORMAL PARAMETERS:
560 0687 1
561 0688 1     output_desc    Where the result text is stored.
562 0689 1     input_len      Number of bytes of input
563 0690 1     input_addr     Address of first input byte
564 0691 1
565 0692 1 IMPLICIT INPUTS:
566 0693 1
567 0694 1     NONE
568 0695 1
569 0696 1 IMPLICIT OUTPUTS:
570 0697 1
571 0698 1     NONE
572 0699 1
573 0700 1 COMPLETION STATUS:
574 0701 1
575 0702 1     $$$_NORMAL      Normal successful completion
576 0703 1     Any errors from STR$CONCAT
577 0704 1     Any errors from STR$COPY_DX
578 0705 1
579 0706 1 SIDE EFFECTS:
580 0707 1
581 0708 1     Calls STR$CONCAT and STR$COPY_DX, thus manipulating string storage.
582 0709 1
583 0710 1 --
584 0711 1
585 0712 2 BEGIN
586 0713 2
587 0714 2 MAP
588 0715 2     INPUT_ADDR : REF VECTOR [ , BYTE],
589 0716 2     OUTPUT_DESC : REF BLOCK [8, BYTE];
590 0717 2
591 0718 2 LOCAL
592 0719 2     INTER_DESC : BLOCK [8, BYTE],
593 0720 2     DIGIT_DESC : BLOCK [8, BYTE],
594 0721 2     DIGIT,
595 0722 2     STATUS;
596 0723 2
597 0724 2 INIT_DESCRIPTOR (INTER_DESC);
598 0725 2 DIGIT_DESC [DSC$W_LENGTH] = 1;
```

```

: 599      0726 2      DIGIT_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
: 600      0727 2      DIGIT_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
: 601      0728 2      DIGIT_DESC [DSC$A_POINTER] = DIGIT;
: 602      0729 2
: 603      0730 2      INCR CHAR_NO FROM 1 TO .INPUT_LEN DO
: 604      0731 2      BEGIN
: 605      0732 2
: 606      0733 2      LOCAL
: 607      0734 2      CHAR;
: 608      0735 2
: 609      0736 2      CHAR = .INPUT_ADDR [.CHAR_NO - 1];
: 610      0737 2      DIGIT = (.CHAR AND 15) + '0';
: 611      0738 2
: 612      0739 2      IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
: 613      0740 2
: 614      0741 2      STATUS = STR$CONCAT (INTER_DESC, DIGIT_DESC, INTER_DESC);
: 615      0742 2
: 616      0743 2      IF ( NOT .STATUS) THEN RETURN (.STATUS);
: 617      0744 2
: 618      0745 2      DIGIT = (.CHAR^4) + '0';
: 619      0746 2
: 620      0747 2      IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
: 621      0748 2
: 622      0749 2      STATUS = STR$CONCAT (INTER_DESC, DIGIT_DESC, INTER_DESC);
: 623      0750 2
: 624      0751 2      IF ( NOT .STATUS) THEN RETURN (.STATUS);
: 625      0752 2
: 626      0753 2      END;
: 627      0754 2
: 628      0755 2      STATUS = STR$COPY_DX (.OUTPUT_DESC, INTER_DESC);
: 629      0756 2      DISCARD_DESCRIPTOR (INTER_DESC);
: 630      0757 2      RETURN (.STATUS);
: 631      0758 1      END;
                                ! End of routine HEX_TEXT
```

```

                                003C 00000 HEX_TEXT:
                                .WORD      Save R2,R3,R4,R5
                                MOVAB      STR$CONCAT, R5
                                SUBL2      #20, SP
                                OC AE 020E0000 8F D0 0000C  MOVL      #34471936, INTER_DESC
                                10 AE D4 00014  CLRL      INTER_DESC+4
                                04 AE 010E0001 8F D0 00017  MOVL      #17694721, DIGIT_DESC
                                08 AE 6E 9E 0001F  MOVAB     DIGIT, DIGIT_DESC+4
                                53 D4 00023  CLRL      CHAR_NO
                                4E 11 00025  BRB       4$
                                50 53 OC AC C1 00027 1$:  ADDL3     INPUT_ADDR, CHAR_NO, R0
                                52 52 FF A0 9A 0002C  MOVZBL    -1(R0), CHAR
                                04 04 00 EF 00030  EXTZV     #0, #4, CHAR, DIGIT
                                6E 30 C0 00035  ADDL2      #48, DIGIT
                                39 6E D1 00038  CMPL      DIGIT, #57
                                03 15 0003B  BLEQ      2$
                                6E 07 C0 0003D  ADDL2      #7, DIGIT
                                OC AE 9F 00040 2$:  PUSHAB    INTER_DESC
                                08 AE 9F 00043  PUSHAB    DIGIT_DESC
                                0670
                                0724
                                0725
                                0728
                                0736
                                0737
                                0739
                                0741
```



EDT\$WRIEDTMSG  
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG

HEX\_TEXT - Return a binary string in hexadecimal

J 4  
16-Sep-1984 02:18:31  
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]WRIEDTMSG.B32;1

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52	65	14	AE	9F	00046	PUSHAB	INTER_DESC	:	
	54		03	FB	00049	CALLS	#3, STR\$CONCAT	:	
	4E		50	D0	0004C	MOVL	R0, STATUS	:	
	52	FC	54	E9	0004F	BLBC	STATUS, 5\$	:	0743
	6E		8F	78	00052	ASHL	#-4, CHAR, R2	:	0745
	39	30	A2	9E	00057	MOVAB	48(R2), DIGIT	:	
			6E	D1	0005B	CMPL	DIGIT, #57	:	0747
			03	15	0005E	BLEQ	3\$	:	
	6E		07	C0	00060	ADDL2	#7, DIGIT	:	
		0C	AE	9F	00063	PUSHAB	INTER_DESC	:	0749
		08	AE	9F	00066	PUSHAB	DIGIT_DESC	:	
		14	AE	9F	00069	PUSHAB	INTER_DESC	:	
	65		03	FB	0006C	CALLS	#3, STR\$CONCAT	:	
	54		50	D0	0006F	MOVL	R0, STATUS	:	
	2B		54	E9	00072	BLBC	STATUS, 5\$	:	0751
AD	53	08	AC	F3	00075	AOBLEQ	INPUT_LEN, CHAR_NO, 1\$	:	0750
		0C	AE	9F	0007A	PUSHAB	INTER_DESC	:	0755
		04	AC	DD	0007D	PUSHL	OUTPUT_DESC	:	
00000000G	00		02	FB	00080	CALLS	#2, STR\$COPY_DX	:	
	54		50	D0	00087	MOVL	R0, STATUS	:	
		0C	AE	9F	0008A	PUSHAB	INTER_DESC	:	0756
00000000G	00		01	FB	0008D	CALLS	#1, STR\$FREE1_DX	:	
	09		50	E8	00094	BLBS	FREE_STATUS, 5\$	:	
			50	DD	00097	PUSHL	FREE_STATUS	:	
00000000G	00		01	FB	00099	CALLS	#1, LIB\$STOP	:	
	50		54	D0	000A0	MOVL	STATUS, R0	:	0757
			04	000A3	5\$:	RET		:	0758

; Routine Size: 164 bytes, Routine Base: \_EDT\$CODE + 05EF

EXES

Modu

----

FP\$

VAX

SYS

```

: 633 0759 1 %SBTTL 'PRINTABLE_TEXT - Return a binary string in ASCII, printable'
: 634 0760 1 ROUTINE PRINTABLE_TEXT (
: 635 0761 1     OUTPUT_DESC,      Return a binary string in printable ASCII
: 636 0762 1     INPUT_LEN,    Descriptor to receive the text
: 637 0763 1     INPUT_ADDR,   Number of input bytes
: 638 0764 1     ) =          Address of start of input
: 639 0765 1
: 640 0766 1 !++
: 641 0767 1 FUNCTIONAL DESCRIPTION:
: 642 0768 1
: 643 0769 1     This routine converts an arbitrary string of bytes into ASCII, representing
: 644 0770 1     unprintable characters in hexadecimal so the result can be printed.
: 645 0771 1
: 646 0772 1 CALLING SEQUENCE:
: 647 0773 1
: 648 0774 1     status.wlc.v = PRINTABLE_TEXT (OUTPUT_desc.wt.dx, INPUT_LEN.rl.v, INPUT_ADDR.ra.v)
: 649 0775 1
: 650 0776 1 FORMAL PARAMETERS:
: 651 0777 1
: 652 0778 1     OUTPUT_DESC      Where the result text is stored.
: 653 0779 1     INPUT_LEN        Number of bytes of input
: 654 0780 1     INPUT_ADDR      Address of first input byte
: 655 0781 1
: 656 0782 1 IMPLICIT INPUTS:
: 657 0783 1
: 658 0784 1     NONE
: 659 0785 1
: 660 0786 1 IMPLICIT OUTPUTS:
: 661 0787 1
: 662 0788 1     NONE
: 663 0789 1
: 664 0790 1 COMPLETION STATUS:
: 665 0791 1
: 666 0792 1     $$$_NORMAL      Normal successful completion
: 667 0793 1     Any errors from STR$CONCAT
: 668 0794 1     Any errors from STR$COPY_DX
: 669 0795 1
: 670 0796 1 SIDE EFFECTS:
: 671 0797 1
: 672 0798 1     Calls STR$CONCAT and STR$COPY_DX, thus manipulating string storage.
: 673 0799 1
: 674 0800 1 --
: 675 0801 1
: 676 0802 2 BEGIN
: 677 0803 2
: 678 0804 2 MAP
: 679 0805 2     INPUT_ADDR : REF VECTOR [, BYTE],
: 680 0806 2     OUTPUT_DESC : REF BLOCK [8, BYTE];
: 681 0807 2
: 682 0808 2 LOCAL
: 683 0809 2     INTER_DESC : BLOCK [8, BYTE],
: 684 0810 2     CHAR_DESC : BLOCK [8, BYTE],
: 685 0811 2     CHAR_REP : VECTOR [4, BYTE],
: 686 0812 2     STATOS;
: 687 0813 2
: 688 0814 2     INIT_DESCRIPTOR (INTER_DESC);
: 689 0815 2     CHAR_DESC [DSC$W_LENGTH] = 1;
```



```

690 0816 2 CHAR_DESC [DSC$B_DTYPE] = DSC$K_DTYPE_T;
691 0817 2 CHAR_DESC [DSC$B_CLASS] = DSC$K_CLASS_S;
692 0818 2 CHAR_DESC [DSC$A_POINTER] = CHAR_REP [0];
693 0819 2
694 0820 2 INCR CHAR_NO FROM 1 TO .INPUT_LEN DO
695 0821 2 BEGIN
696 0822 2
697 0823 2 LOCAL
698 0824 2 CHAR;
699 0825 2
700 0826 2 CHAR = .INPUT_ADDR [.CHAR_NO - 1];
701 0827 2
702 0828 4 IF ((.CHAR GEQ %X'20') AND
703 0829 4 (.CHAR LSS %X'7F') AND
704 0830 4 (.CHAR NEQ '<') AND
705 0831 4 (.CHAR NEQ '''))
706 0832 3 THEN
707 0833 4 BEGIN
708 0834 4 !+ Show character as itself.
709 0835 4 !-
710 0836 4 CHAR_REP [0] = .CHAR;
711 0837 4 CHAR_DESC [DSC$W_LENGTH] = 1;
712 0838 4 END
713 0839 4 ELSE
714 0840 3 BEGIN
715 0841 4 !+ The character is not printable. Represent it by <>. To avoid
716 0842 4 !- ambiguity, "<" and "" are also represented this way. Control characters
717 0843 4 SOH through SUB are represented by <^letter>; others characters by <hex>.
718 0844 4
719 0845 4 CHAR_REP [0] = '<';
720 0846 4
721 0847 4 IF (((.CHAR + %X'40') GEQ 'A') AND ((.CHAR + %X'40') LEQ 'Z'))
722 0848 4 THEN
723 0849 5 BEGIN
724 0850 5 CHAR_REP [1] = '^';
725 0851 5 CHAR_REP [2] = .CHAR + %X'40';
726 0852 5 END
727 0853 5 ELSE
728 0854 5 BEGIN
729 0855 5 LOCAL
730 0856 5 DIGIT;
731 0857 5
732 0858 5 DIGIT = (.CHAR^-4) + '0';
733 0859 5
734 0860 5 IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
735 0861 5
736 0862 5 CHAR_REP [1] = .DIGIT;
737 0863 5 DIGIT = (.CHAR AND 15) + '0';
738 0864 5
739 0865 5 IF (.DIGIT GTR '9') THEN DIGIT = .DIGIT - 10 - '0' + 'A';
740 0866 5
741 0867 5 CHAR_REP [2] = .DIGIT;
742 0868 5
743 0869 5 END;
744 0870 5
745 0871 4
746 0872 4
```

```

: 747      0873 4      CHAR_REP [3] = '>';
: 748      0874 4      CHAR_DESC [DSC$W_LENGTH] = 4;
: 749      0875      END;
: 750      0876
: 751      0877      STATUS = STR$CONCAT (INTER_DESC, INTER_DESC, CHAR_DESC);
: 752      0878
: 753      0879      IF ( NOT .STATUS) THEN RETURN (.STATUS);
: 754      0880
: 755      0881      END;
: 756      0882
: 757      0883      STATUS = STR$COPY_DX (.OUTPUT_DESC, INTER_DESC);
: 758      0884      DISCARD_DESCRIPTOR (INTER_DESC);
: 759      0885      RETURN (.STATUS);
: 760      0886 1      END;

```

! End of routine PRINTABLE\_TEXT

```

                                000C 00000 PRINTABLE TEXT:
                                .WORD Save R2,R3
                                SUBL2 #20, SP
                                MOVL #34471936, INTER_DESC
                                CLRL INTER_DESC+4
                                MOVL #17694721, CHAR_DESC
                                MOVAB CHAR_REP, CHAR_DESC+4
                                CLRL CHAR_NO
                                BRW 7$
                                ADDL3 INPUT_ADDR, CHAR_NO, R0
                                MOVZBL -1(R0), CHAR
                                CMPL CHAR, #32
                                BLSS 2$
                                CMPL CHAR, #127
                                BGEQ 2$
                                CMPL CHAR, #60
                                BEQL 2$
                                CMPL CHAR, #34
                                BEQL 2$
                                MOVAB CHAR, CHAR_REP
                                MOVW #1, CHAR_DESC
                                BRB 6$
                                MOVAB #60, CHAR_REP
                                MOVAB 64(R1), R0
                                CMPL R0, #65
                                BLSS 3$
                                CMPL R0, #90
                                BGTR 3$
                                MOVAB #94, CHAR_REP+1
                                BRB 5$
                                ASHL #-4, CHAR, R0
                                ADDL2 #48, DIGIT
                                CMPL DIGIT, #57
                                BLEQ 4$
                                ADDL2 #7, DIGIT
                                MOVAB DIGIT, CHAR_REP+1
                                EXTZV #0, #4, CHAR, DIGIT
                                ADDL2 #48, DIGIT
0C      5E      14      C2 00002      .WORD Save R2,R3
      AE 020E0000 8F      D0 00005      SUBL2 #20, SP
      10      AE      D4 0000D      MOVL #34471936, INTER_DESC
04      AE 010E0001 8F      D0 00010      CLRL INTER_DESC+4
08      AE      6E      9E 00018      MOVL #17694721, CHAR_DESC
      52      D4 0001C      MOVAB CHAR_REP, CHAR_DESC+4
      0090 31 0001E      CLRL CHAR_NO
      AC      C1 00021 1$:      BRW 7$
      A0      9A 00026      ADDL3 INPUT_ADDR, CHAR_NO, R0
      51      D1 0002A      MOVZBL -1(R0), CHAR
      1C      19 0002D      CMPL CHAR, #32
0000007F 8F      51      D1 0002F      BLSS 2$
      13      18 00036      CMPL CHAR, #127
      3C      51      D1 00038      BGEQ 2$
      0E      13 0003B      CMPL CHAR, #60
      22      51      D1 0003D      BEQL 2$
      09      13 00040      CMPL CHAR, #34
      51      90 00042      BEQL 2$
04      AE      01      B0 00045      MOVAB CHAR, CHAR_REP
      50      11 00049      MOVW #1, CHAR_DESC
      3C      90 0004B 2$:      BRB 6$
      A1      9E 0004E      MOVAB #60, CHAR_REP
00000041 8F      50      D1 00052      MOVAB 64(R1), R0
      10      19 00059      CMPL R0, #65
0000005A 8F      50      D1 0005B      BLSS 3$
      07      14 00062      CMPL R0, #90
01      AE      5E      8F      90 00064      BGTR 3$
      24      11 00069      MOVAB #94, CHAR_REP+1
50      51      FC      8F      78 0006B 3$:      BRB 5$
      30      C0 00070      ASHL #-4, CHAR, R0
      50      D1 00073      ADDL2 #48, DIGIT
      03      15 00076      CMPL DIGIT, #57
      07      C0 00078      BLEQ 4$
01      AE      50      90 0007B 4$:      ADDL2 #7, DIGIT
      04      00 0007F      MOVAB DIGIT, CHAR_REP+1
50      50      30      C0 00084      EXTZV #0, #4, CHAR, DIGIT
      ADDL2 #48, DIGIT

```



EDT\$WRIEDTMSG  
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG  
PRINTABLE\_TEXT - Return a binary string in ASCII

N 4  
16-Sep-1984 02:18:31  
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]WRIEDTMSG.B32;1

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(8)

		39	50	D1	00087	CMPL	DIGIT, #57	:	0868	
			03	15	0008A	BLEQ	5\$	:		
			07	C0	0008C	ADDL2	#7, DIGIT	:		
	02	50	50	90	0008F	5\$:	MOVB	DIGIT, CHAR REP+2	:	0870
	03	AE	3E	90	00093		MOVB	#62, CHAR REP+3	:	0873
	04	AE	04	B0	00097		MOVW	#4, CHAR DESC	:	0874
			04	AE	9F	6\$:	PUSHAB	CHAR DESC	:	0877
			10	AE	9F		PUSHAB	INTER_DESC	:	
			14	AE	9F		PUSHAB	INTER_DESC	:	
	00000000G	00	03	FB	000A4		CALLS	#3, STR\$CONCAT	:	
		53	50	D0	000AB		MOVL	R0, STATUS	:	
		2D	53	E9	000AE		BLBC	STATUS, 8\$	:	0879
FF69	52	01	08	AC	F1	7\$:	ACBL	INPUT_LEN, #1, CHAR_NO, 1\$	:	0820
			0C	AE	9F		PUSHAB	INTER_DESC	:	0883
			04	AC	DD		PUSHL	OUTPUT_DESC	:	
	00000000G	00	02	FB	000BE		CALLS	#2, STR\$COPY_DX	:	
		53	50	D0	000C5		MOVL	R0, STATUS	:	
			0C	AE	9F		PUSHAB	INTER_DESC	:	0884
	00000000G	00	01	FB	000CB		CALLS	#1, STR\$FREE1_DX	:	
		09	50	E8	000D2		BLBS	FREE_STATUS, 8\$	:	
			50	DD	000D5		PUSHL	FREE_STATUS	:	
	00000000G	00	01	FB	000D7		CALLS	#1, CIB\$STOP	:	
		50	53	D0	000DE	8\$:	MOVL	STATUS, R0	:	0885
			04	000E1			RET		:	0886

; Routine Size: 226 bytes, Routine Base: \_EDT\$CODE + 0693

; 761 0887 1 !<BLF/PAGE>

EDT\$WRIEDTMSG  
V04-000

EDT\$WRIEDTMSG - write VMSMSG.MSG  
PRINTABLE\_TEXT - Return a binary string in ASCII

B 5  
16-Sep-1984 02:18:31  
14-Sep-1984 12:25:55

VAX-11 Bliss-32 V4.0-742  
[EDT.SRC]WRIEDTMSG.B32;1

: 763 0888 1 END  
: 764 0889 1  
: 765 0890 0 ELUDOM

! End of module EDT\$WRIEDTMSG

.EXTRN LIB\$STOP

PSECT SUMMARY		
Name	Bytes	Attributes
_EDT\$CODE	1909	NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]STARLET.L32;1	9776	106	1	581	00:02.4

COMMAND QUALIFIERS

BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACEBACK/LIS=LIS\$:WRIEDTMSG/OBJ=OBJ\$:WRIEDTMSG MSRC\$:WRIEDTMSG.B32/UPDATE=(ENH\$:WRIEDTMSG)

: Size: 1601 code + 308 data bytes  
: Run Time: 01:14.7  
: Elapsed Time: 02:10.7  
: Lines/CPU Min: 714  
: Lexemes/CPU-Min: 11820  
: Memory Used: 334 pages  
: Compilation Complete



0142 AH-BT13A-SE  
VAX/VMS V4.0

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